

10

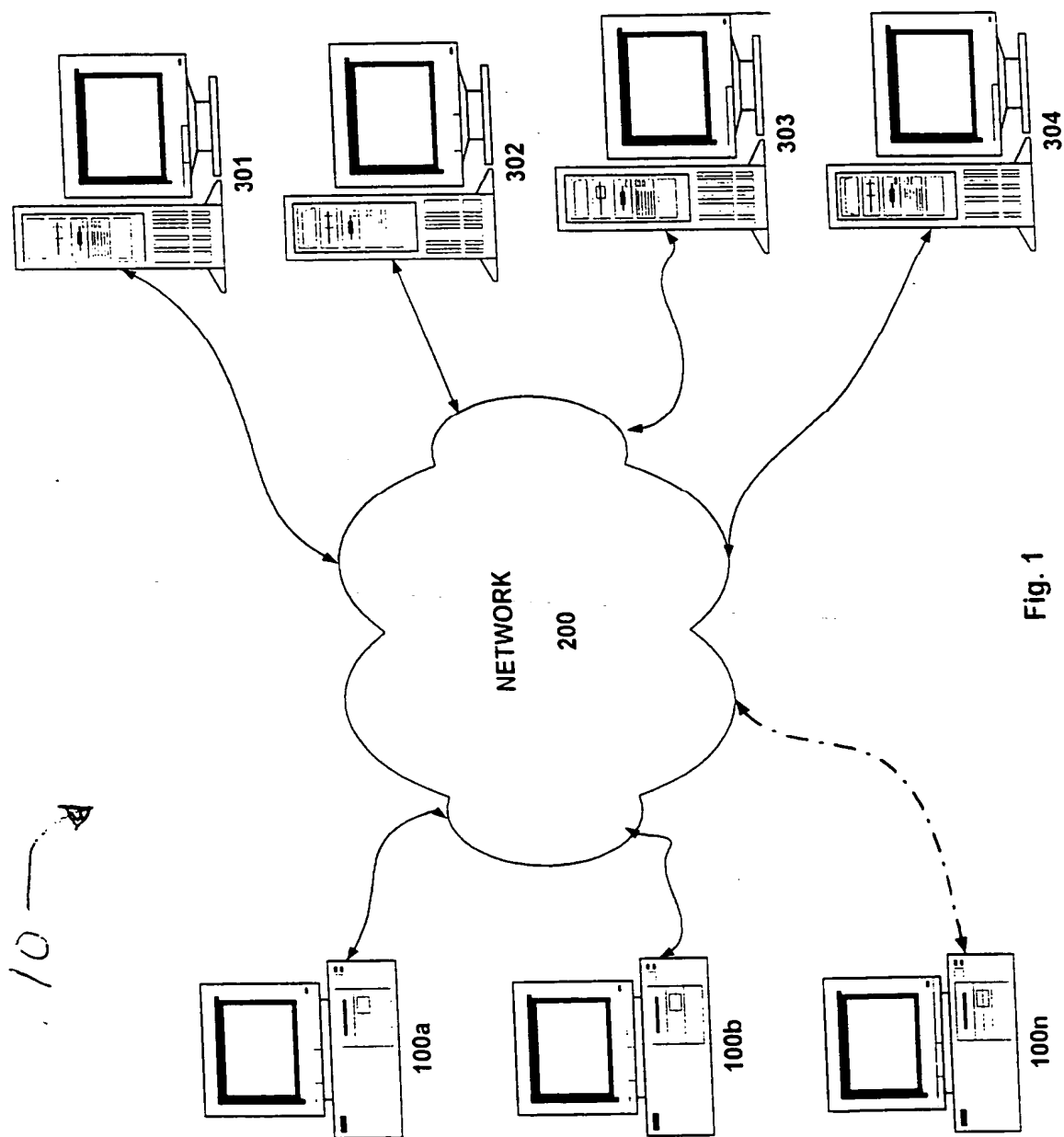


Fig. 1

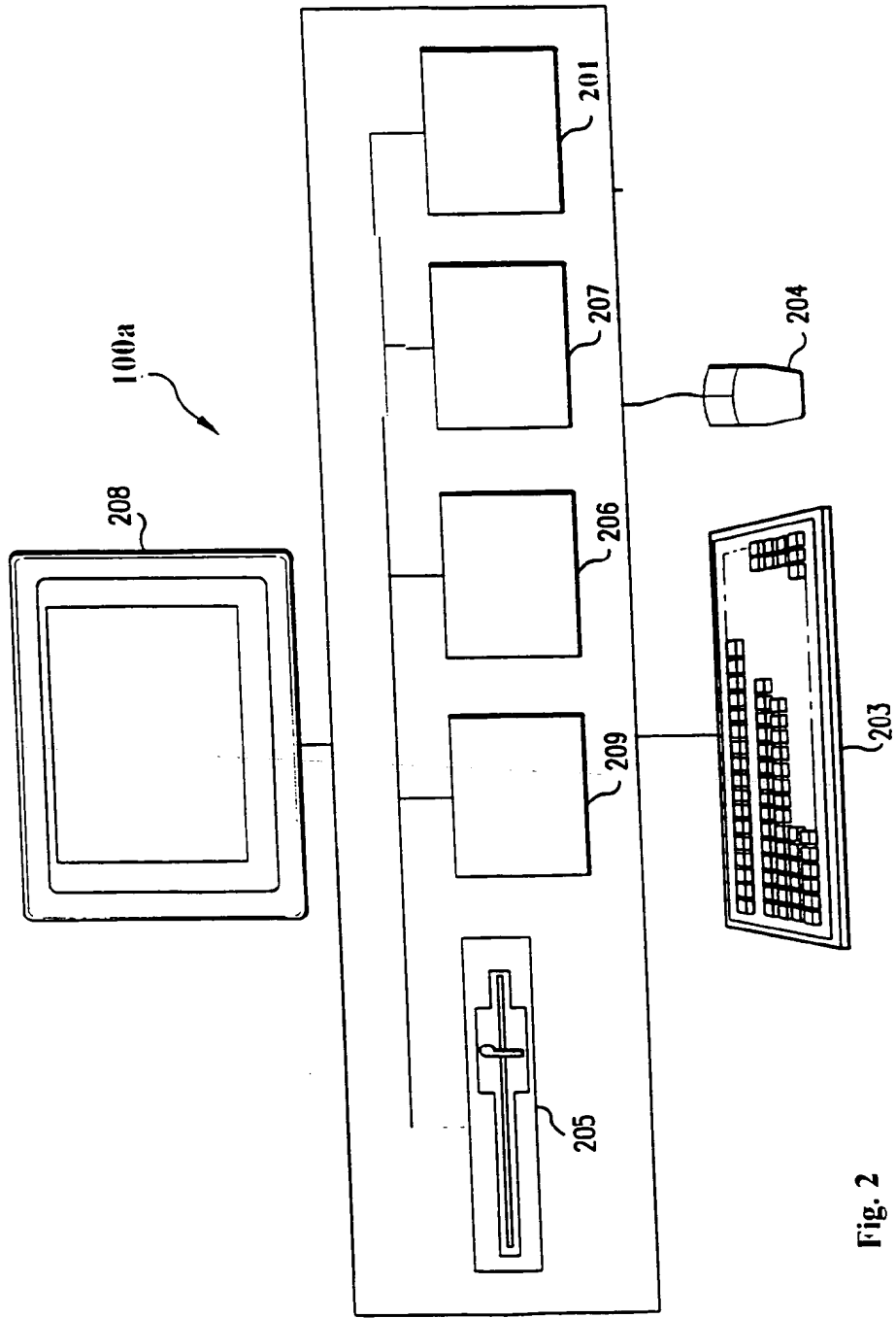


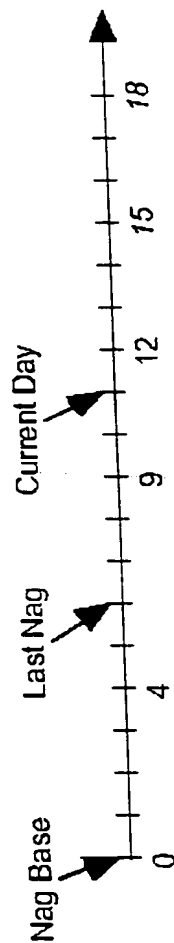
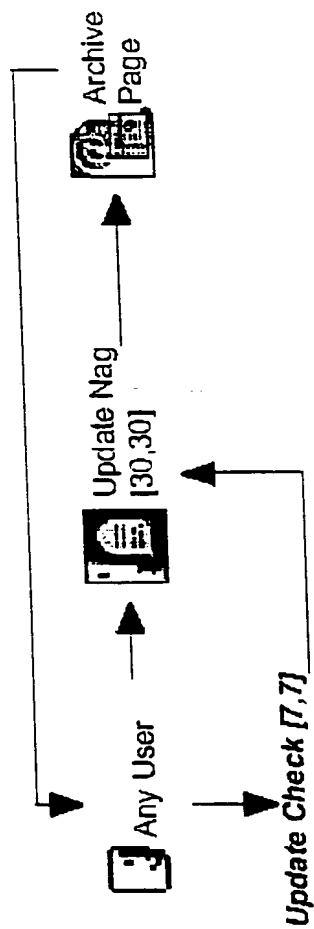
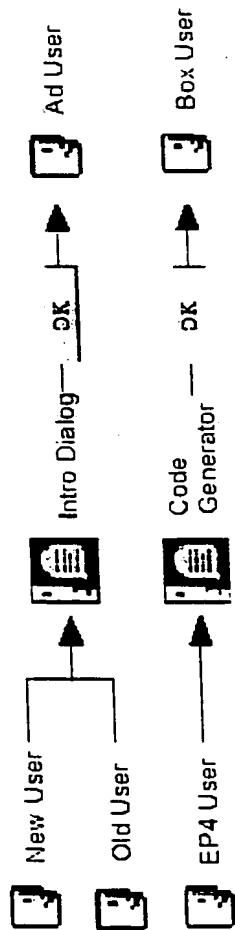
Fig. 2

[illegible]

Fig. 3A

[illegible]

Fig. 3B.



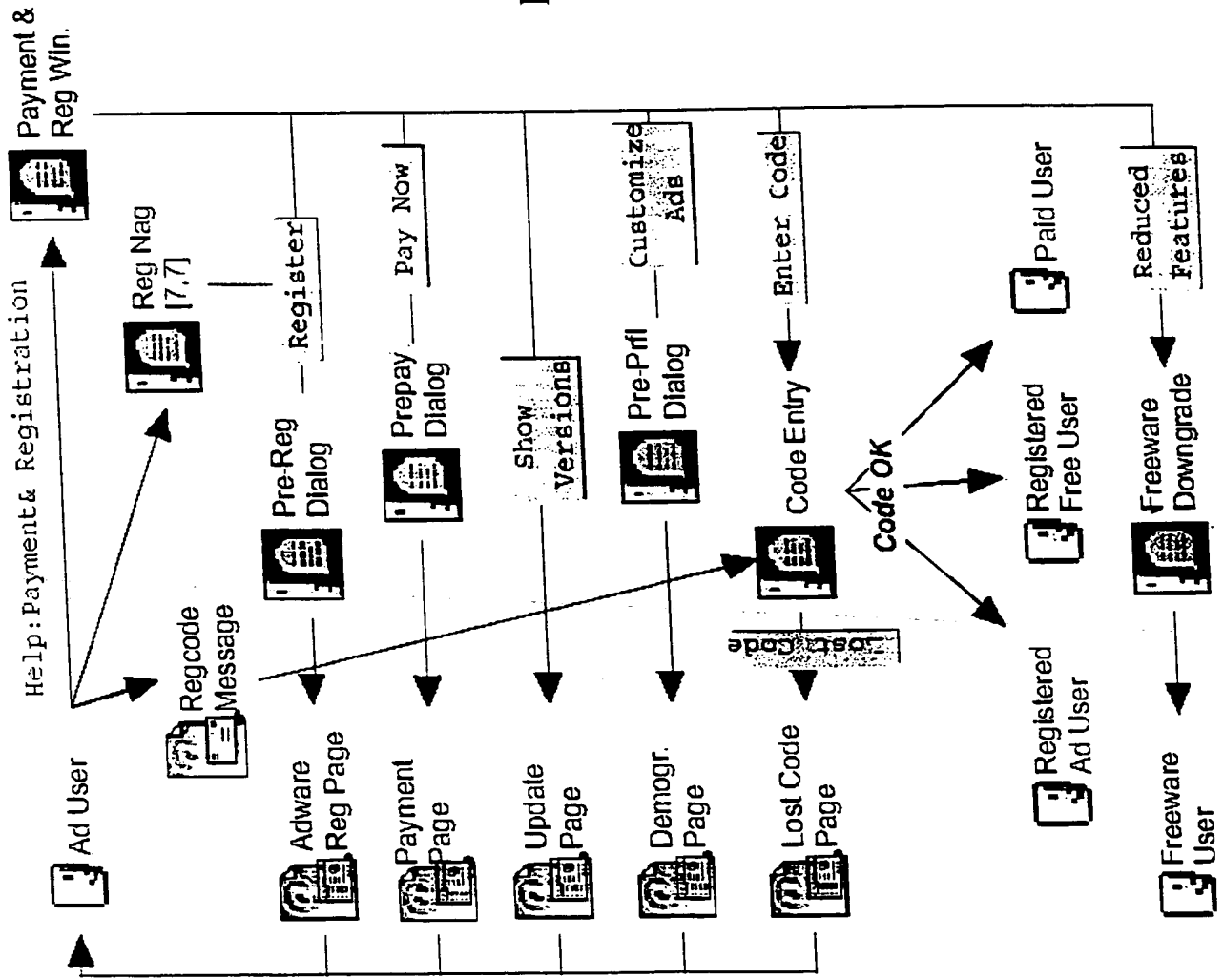




Fig. 5A

Payment & Registration


Which Eudora is right for you?



Sponsored Mode
(free, with ads)




Paid Mode
(costs money, no ads)




Light Mode
(free, fewer features)


Keeping Current



Register with Us



Customize the
Ads You See




Find the Latest
Update to Eudora

Your Registration Information

<no registration name>

<no registration code>



Change Your
Registration

Get Take me to the Eudora information

Fig. 5B

Would you like to register your copy of Eudora?

As a registered user of Eudora we won't nag you as often as we do. We'll also erect a giant statue in your image on the front lawn of our corporate headquarters (*).

How cool is that? C'mon... Register! It's fun and easy!

(* Giant statue offer void on the planet Earth)

Maybe later

Take me to the registration page!

Fig. 5C

Thanks for choosing to register Eudora!
You'll next be walked through a few quick steps, as described below, before registration is complete:

- Eudora will open your web browser and take you to our registration page
- You'll fill in some simple registration information on the web site
- We'll then email a Eudora registration code back to you
- The next time you check mail, Eudora will automatically recognize this code and display a dialog box inviting you to confirm your registration information
- Ta da! You'll then become a registered user of Eudora... Thanks!

Cancel

Continue

Fig. 5D

Thanks for choosing to purchase Eudora!

You'll next be walked through a few quick steps, as described below, before your purchase is complete:

- Eudora will open your web browser and take you to our Payment & Registration page
- You'll be asked to provide your payment and registration information on the web site
- We'll then email a Eudora registration code back to you
- The next time you check mail, Eudora will automatically recognize this code and display a dialog box letting you to confirm your registration information
- Ta-da! You'll then become a Paid mode user. Congratulations!

Cancel

Continue

Fig. 5E

Thank you for your registration!

To complete your registration, please enter the name you
order and your registration code below.

The exact name you registered under:

First Name:

Last Name:

Your registration code:

Fig. 5F

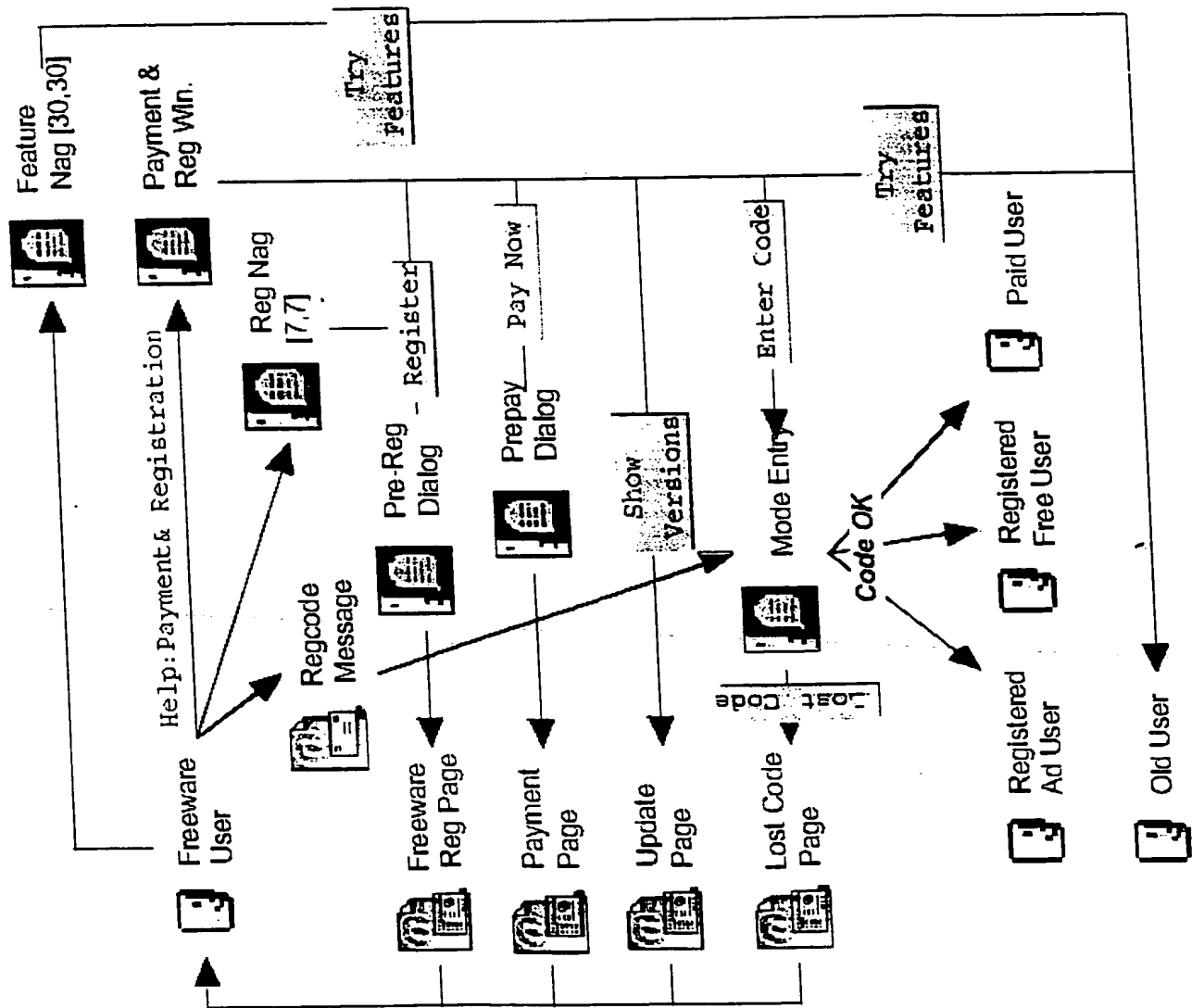


Fig. 6A

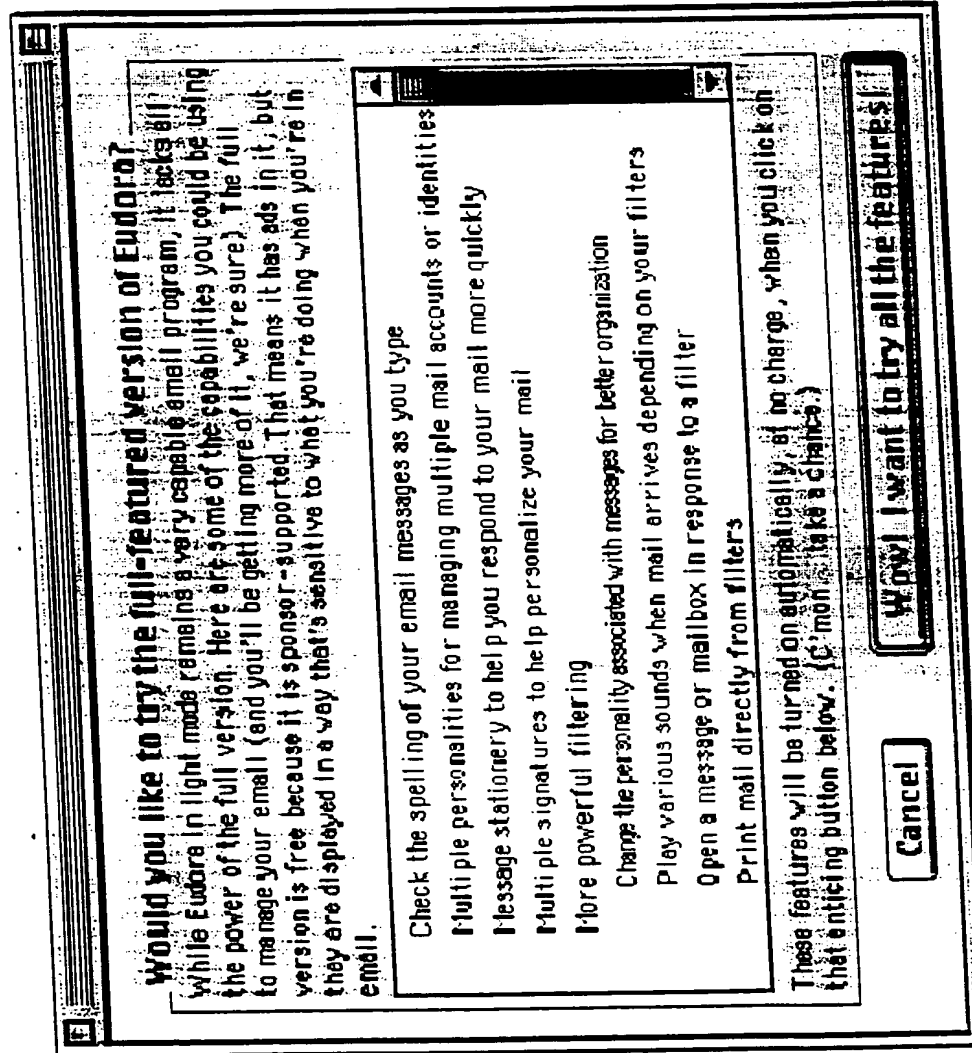


Fig. 6B

There are updates available to Eudora

You have Eudora version 4.1. The following updates have become available since this version was released. If you'd like more information any of these updates, simply follow the links. If you'd rather, you of updates, follow this.

Eudora 5.0

This is a major upgrade, with great new features like automatic :

Eudora 4.2

This update is mostly bug fixes. This update is free to you.

Printed Manual

You can buy a printed manual for Eudora.

Fig. 7B

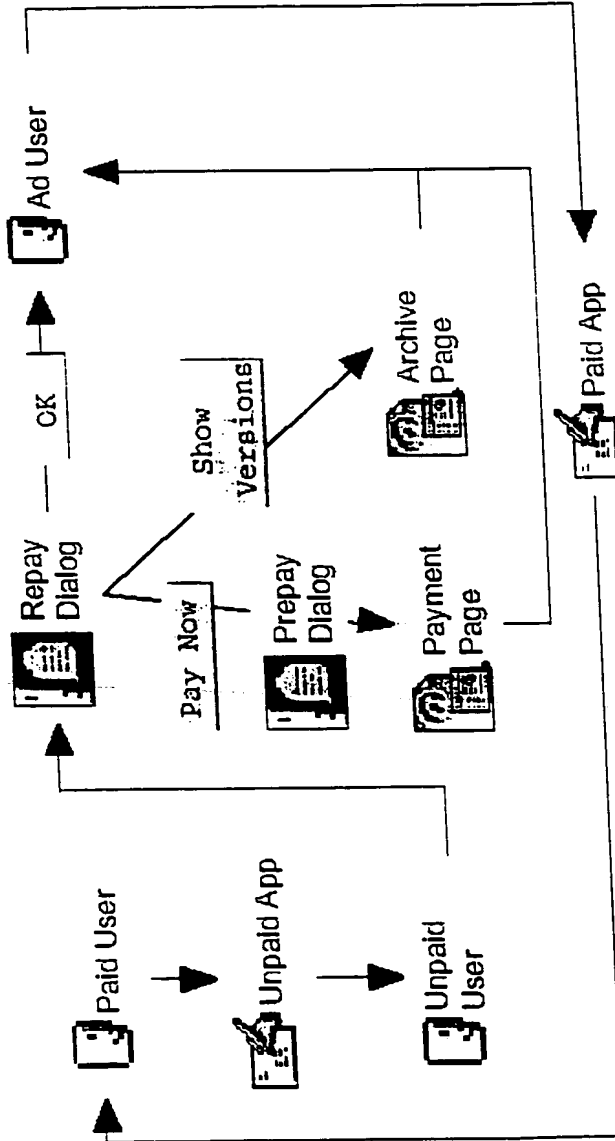


Fig. 9

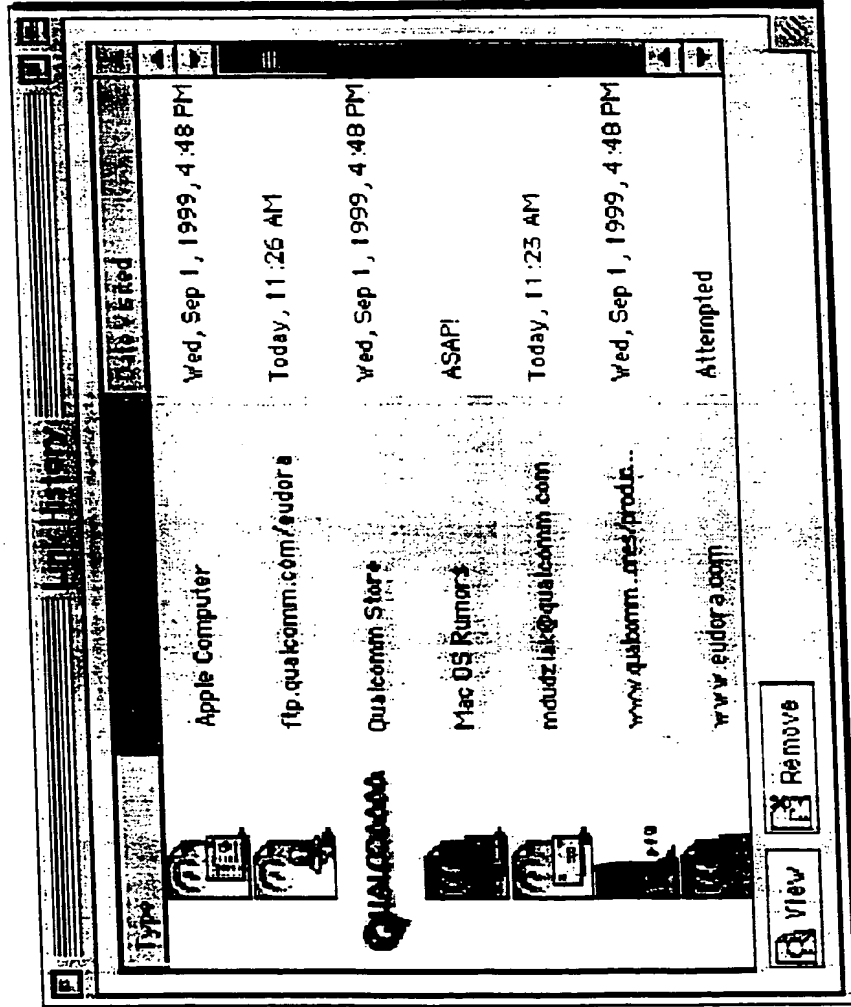


Fig. 12A

Assumptions	
Average Commo. Speed, Mbps	28.8
Average Ad Size, Kbytes	9.3
Number of Users	3,000,000
Number of Hours Running Adserver	2
Number Mailchecks Per User Per Hour	2
Playline Entry Size, Bytes	500

Fig. 13A

Implications	
3X Users	3X Users
Ad Per 4 Seconds	Ad Per 4 Seconds
Ad Downloaded Per Bandwidth	Ad Downloaded Per Bandwidth
Check, Mbps	Check, Mbps
Day	Day
15	15
20	20
25	25
30	30
35	35
40	40
45	45
50	50
55	55
60	60
65	65
70	70
75	75
80	80
85	85
90	90
95	95
100	100
105	105
110	110
115	115
120	120
125	125
130	130
135	135
140	140
145	145
150	150
155	155
160	160
165	165
170	170
175	175
180	180
185	185
190	190
195	195
200	200
205	205
210	210
215	215
220	220
225	225
230	230
235	235
240	240
245	245
250	250
255	255
260	260
265	265
270	270
275	275
280	280
285	285
290	290
295	295
300	300
305	305
310	310
315	315
320	320
325	325
330	330
335	335
340	340
345	345
350	350
355	355
360	360
365	365
370	370
375	375
380	380
385	385
390	390
395	395
400	400
405	405
410	410
415	415
420	420
425	425
430	430
435	435
440	440
445	445
450	450
455	455
460	460
465	465
470	470
475	475
480	480
485	485
490	490
495	495
500	500
505	505
510	510
515	515
520	520
525	525
530	530
535	535
540	540
545	545
550	550
555	555
560	560
565	565
570	570
575	575
580	580
585	585
590	590
595	595
600	600
605	605
610	610
615	615
620	620
625	625
630	630
635	635
640	640
645	645
650	650
655	655
660	660
665	665
670	670
675	675
680	680
685	685
690	690
695	695
700	700
705	705
710	710
715	715
720	720
725	725
730	730
735	735
740	740
745	745
750	750
755	755
760	760
765	765
770	770
775	775
780	780
785	785
790	790
795	795
800	800
805	805
810	810
815	815
820	820
825	825
830	830
835	835
840	840
845	845
850	850
855	855
860	860
865	865
870	870
875	875
880	880
885	885
890	890
895	895
900	900
905	905
910	910
915	915
920	920
925	925
930	930
935	935
940	940
945	945
950	950
955	955
960	960
965	965
970	970
975	975
980	980
985	985
990	990
995	995
1000	1000

Fig. 13B

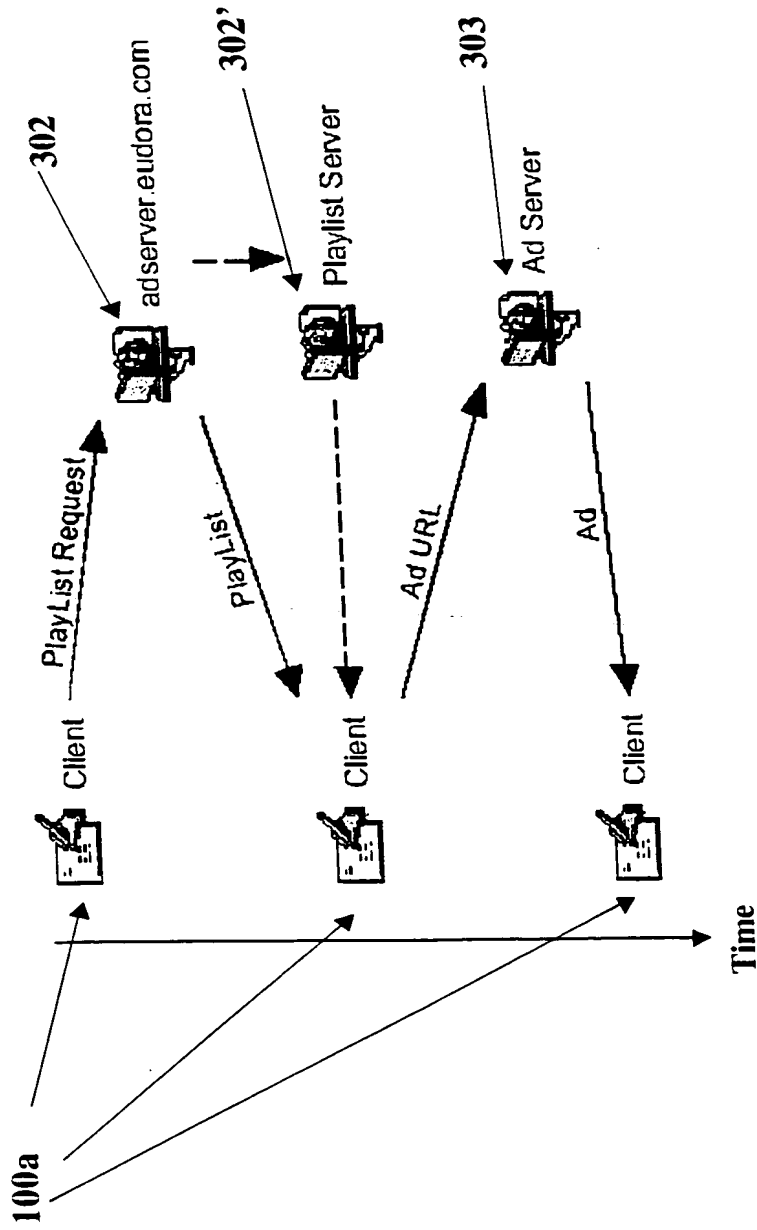


Fig. 14

```

////////////////////////////////////
// Main ad scheduler
ScheduleMain
{
// Has a new day dawned?
Do CheckForNewDay
// Are we are within the current ad's showFor?
if ( ad.thisShowTime < ad.showFor )
{
// there is nothing to be done
return
}
// At this point, we know that we need a new ad
// Perform housekeeping tasks on the old one
Do AdEndBookkeeping
// Pop out of a block if all ads on par
if ( block isn't all playlists )
{
find ad with minimum ad.numberShown
if ( ad.numberShown >= blockGoal )
set block to all playlists
}
// If we are over our quota of regular ads for the day,
// look for a runout
if ( adFaceTimeToday > faceTimeQuota )
{
Do ShowARunout
}
else
{
Do ShowARegularAd
}
}
// end ad schedule main

```

Fig. 15A


```

////////////////////////////////////
// We must perform certain tasks when the calendar day
changes.
CheckForNewDay
{if ( the calendar day has changed )
{
// Perform housekeeping tasks on the ad currently showing
Do StopShowingCurrentAd
// Runout ads are charged for a full showFor if they've been
shown
// at all on a given day. Charge any runout ads if they've
been
// shown at all.
for runout ads
{
if ( ad.thisShowTime > 0 )
{
ad.totalTimeShown += ad.showFor
ad.thisShowTime = 0
}
}
// Now, reset the counters for all ads to reflect the fact
that
// a new day has dawned.
for all ads
{
ad.numberShownToday = 0
}
// Record yesterday's facetime
// Might not literally be yesterday, be sure to use
// whatever day the app was last run on
set old current day's facetime to totalFaceTimeToday
// and reset our global regular ad facetime counter
adFaceTimeToday = 0
totalFaceTimeToday = 0
// if we were in a block, back out
set block to all playlists
}
}
// end CheckForNewDay

```

Fig. 15B

```

////////////////////////////////////
// This function shows a runout ad, and if it
// can't find one, goes to a rerun
ShowARunout
{
for runout ads
{
// has the ad been flushed?
if ( ad.flushed )
try next ad
// are we done showing this runout today?
if ( ad.numberShownToday > ad.dayMax )
try next ad // this one's used up for the day
// are we done showing this runout for ever and ever?
if ( ad.shownFor > ad.showForMax )
try next runout ad // this one's used up forever
// are we between the ad's start and end dates?
if ( ad.startDate < the current date < ad.endDate )
try next runout ad
// the ad is not supposed to run today
// do we actually HAVE the ad?
if ( ad has not been downloaded )
{
ask for ad to be downloaded
try next ad
}
// ok, we believe we should show this runout
// we are now in runout state
Do ShowAnAd
return
}
// if we haven't found a runout ad, we will go to "rerun"
state
Do ShowARerun
}
// end ShowARunout

```

Fig. 15C

```

////////////////////////////////////////
// Rerun state. Look for a regular ad to rerun
ShowARerun
{
for regular ads [ in current block ]
{
// has the ad been flushed?
if ( ad.flushed )
try next ad
// is this ad recent enough to rerun?
if ( ad.lastShownDate is older than returnInterval )
try next ad
// this one is too old to rerun
// if in block, show ads only if it's their "turn"
if ( ad.numberShownToday >= blockGoal )
try next ad // need to find a friend in this block
// are we between the ad's start and end dates?
if ( ad.startDate < the current date < ad.endDate )
try next ad
// the ad is not supposed to run today
// do we actually HAVE the ad?
if ( ad has not been downloaded )
{
ask for ad to be downloaded
try next ad
}
// ok, at this point we can show this ad, but because
// we're in rerun, we don't keep the books
Do ShowAnAd
return
}
// if we get here, we have no ads to show. Punt.
return
}
// end ShowARerun

```

Fig. 15D

```

////////////////////////////////////
// Show a regular ad
ShowARegularAd
{
for regular ads [ in current block ]
{
// has the ad been flushed?
if ( ad.flushed )
try next ad
// are we done showing this ad today?
if ( ad.numberShownToday > ad.dayMax )
try next ad // this one's used up for the day
// if in block, show ads only if it's their "turn"
if ( ad.numberShownToday >= blockGoal )
try next ad // need to find a friend in this block
// are we done showing this ad for ever and ever?
if ( ad.shownFor > ad.showForMax )
try next ad // this one's used up forever
// are we between the ad's start and end dates?
if ( ad.startDate < the current date < ad.endDate )
try next ad
// the ad is not supposed to run today
// do we actually HAVE the ad?
if ( ad has not been downloaded )
{
ask for ad to be downloaded
try next ad
}
// ok, we believe we should show this ad
// we are now in regular state
Do ShowAnAd
return
}
// If we get here, we have failed to find a regular
// ad. Go to runout
Do ShowARunout
}
// end ShowARegularAd

```

Fig. 15E

```

////////////////////////////////////
// Perform necessary housekeeping when we're taking
// down an ad
AdEndBookkeeping
{
// In rerun state, we don't do any bookkeeping
if ( in RerunState )
return
// Account for at most ad.showFor seconds, provided
// we've shown the ad for at least ad.showFor seconds
// Note that this means we don't charge for time beyond
// ad.showFor seconds, which is important
if ( ad.thisShowTime >= ad.showFor )
{
ad.numberShownToday += ad.showFor
ad.shownFor++
// we do NOT reset thisShowTime here, we do it in
// AdStartBookkeeping. It actually doesn't matter where
// we do it, provided we are careful NOT to do it for
// runout ads.
}
}
// end AdEndBookkeeping

```

Fig. 15F

```

////////////////////////////////////
// Show an ad, including bookkeeping and block handling
ShowAnAd
{
// If the ad is in a block, notice that
if ( it's in a "block" playlist )
{
if ( not currently in a block )
{
find ad in block with minimum numberShown
make that our ad
set blockGoal to minimum numberShown+1
}
set current block to this playlist
}
// now do bookkeeping
Do AdStartBookkeeping
// and actually show it
Do DisplayThatAd
}

```

00732009-420700

Fig. 15G

```

////////////////////////////////////
// Perform housekeeping when we put up an ad
AdStartBookkeeping
{
// In rerun state, we don't do any bookkeeping
if ( in RerunState )
return
// For regular ads
if ( it's a regular ad )
{
ad.thisShowTime = 0
ad.lastShownDate = now
}
}
// end AdStartBookkeeping

```

Fig. 15H

Persistent Ads	
Playlist Request	faceTime Used to determine how much advertising to send to client faceTimeLeft Not used
Playlist Response ClientInfo	reqInterval Relatively large: one or more days flush Used. Single playlist completely specifies list of ads client should have
Playlist Response Scheduling Parameters	showForMax Not used

Fig. 16A

Short-Lived Ads	
Playlist Request	faceTime Not used faceTimeLeft Used to determine how many ads client should receive
Playlist Response ClientInfo	reqInterval Not used. Instead, client requests new playlist whenever ads "run low". flush Not used
Playlist Response Scheduling Parameters	showForMax Used to determine how long an ad runs

Fig. 16B

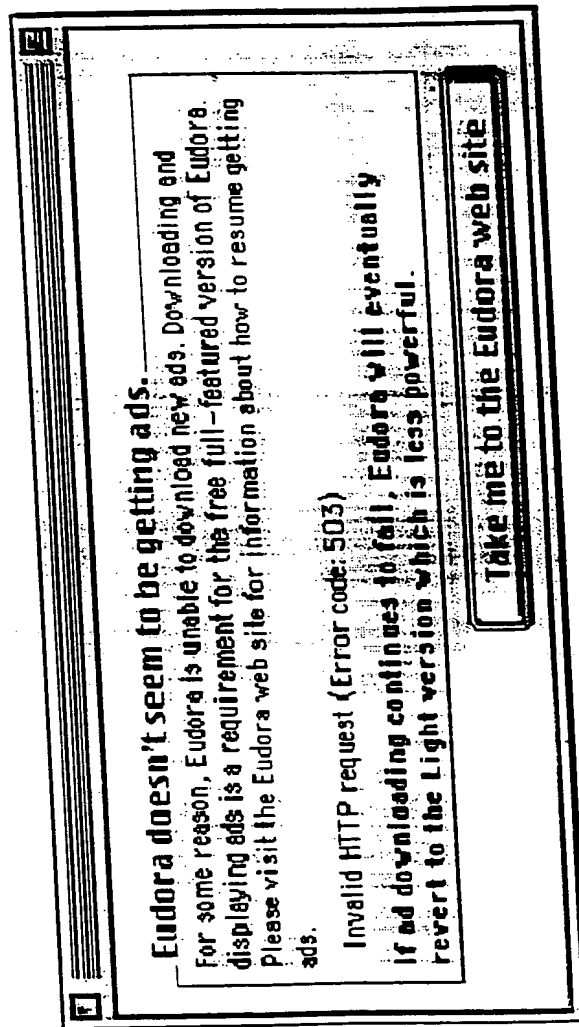


Fig. 17A

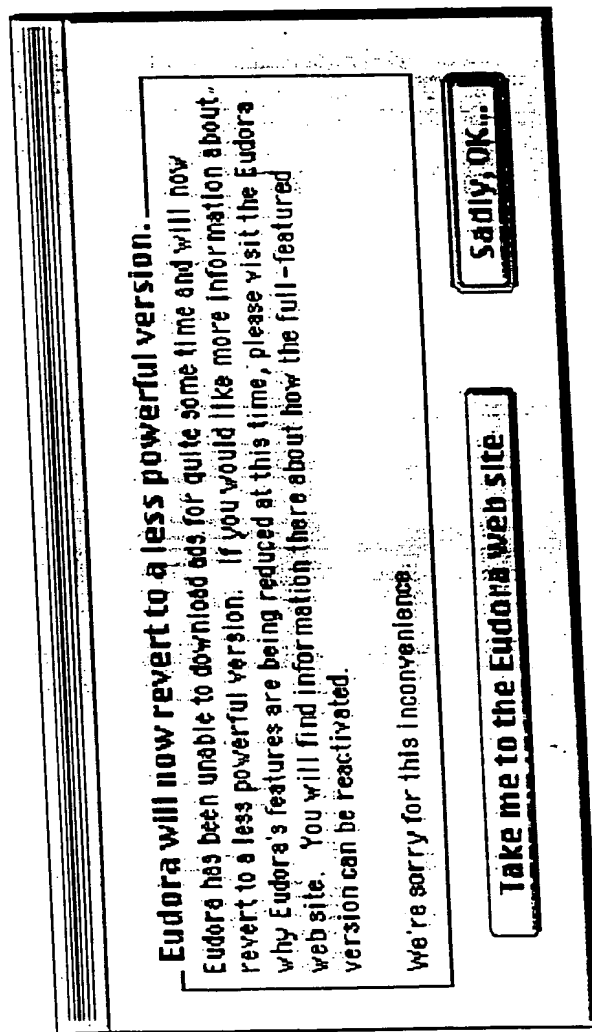


Fig. 17C

Page	Applicable Query Parts														topic
	platform	product	version	distributor	mode	realname	email	regfirst	reglast	regcode	oldReg	regLevel	profile	url	
Payment	pay	X	X	X	X	X	X	X	X	X	X	X			
Freeware Registration	register-free	X	X	X	X	X	X	X	X	X	X	X			
Adware Registration	register-ad	X	X	X	X	X	X	X	X	X	X	X			
Box Registrations	register-box	X	X	X	X	X	X	X	X	X	X	X			
Lost Code	lostcode	X	X	X	X	X	X	X	X	X		X			
Update	update	X	X	X	X	X						X			
Pro Update	proudate	X	X	X	X	X									
Archived	archived	X	X	X	X	X							X		
Profile	profile	X	X	X	X	X	X								
Introduction	intro						X								
Support	n/a	X	X	X	X	X	X	X	X	X	X				
QuickTime Missing	support	X	X	X	X	X									no-qt
Ad Failure	support	X	X	X	X	X									ad-fail
Tutorial	support	X	X	X	X	X									tutor
FAQ	support	X	X	X	X	X									faq
Light Users	support	X	X	X	X	X									light
Search Support	support	X	X	X	X	X									search
Newsgroups	support	X	X	X	X	X									usenet

Fig. 19

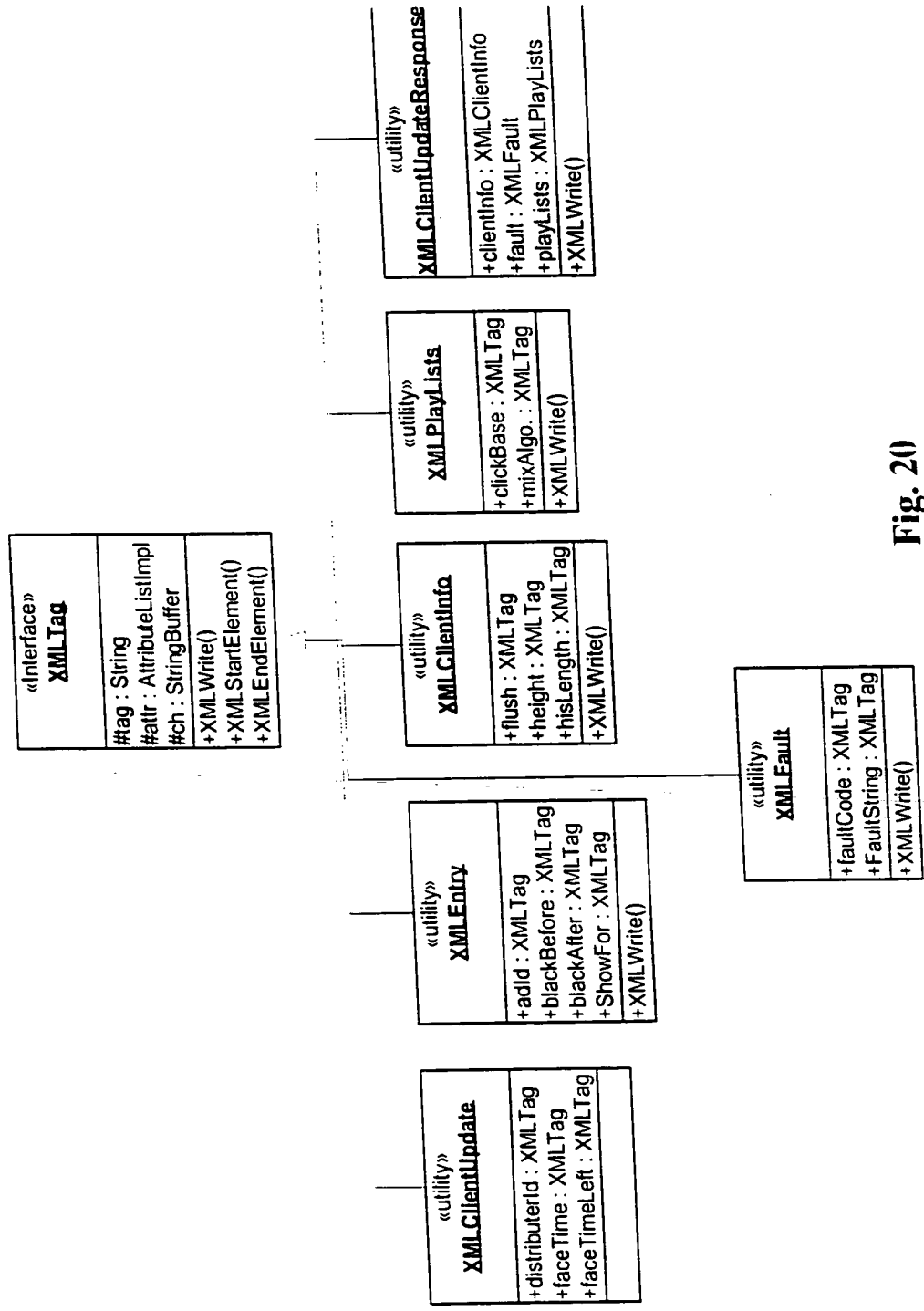


Fig. 20

8 The list of available ads advantageously can be built from the following query:

```
ads = dbCon.prepareStatement("SELECT * FROM ads WHERE StartDate <= today AND endDate >= today + 30 AND AdType = 'I' AND AdStatus = 'A' AND ImpressionsServed < Impressions ORDERD BY ImpressionsServed ASC);
```

run out ads = dbCon.prepareStatement("SELECT * FROM ads WHERE StartDate <= today AND endDate >= today + 30 AND AdType = 'R' AND AdStatus = 'A' AND ImpressionsServed < Impressions ORDERD BY ImpressionsServed ASC);

8 The time required to deliver the ads advantageously can be calculated in the following manner.

```
face time left for today [seconds] = faceTime[today] - faceTimeUsedToday
```

(Comment: Face time left for today is the number of seconds the servlet can use to deliver special ads today.)

```
predict face time [seconds] = SUM( faceTime[tomorrow], faceTime[tomorrow + 1], ... faceTime[tomorrow + reqInterval]
```

(Comment: Predict face time is the number of seconds the servlet predicts the user is going to have.)

```
goal show time left [seconds] = predict face time - faceTimeLeft
```

(Comment: Goal show time left is the number of seconds that the software provider needs to fill with ads.)

Fig. 21A

```

8 Targeting
  while (face time left for today ) {
    if ad is not in the history {
      select ad [according to target = today]
      face time left for today := ad.showFor
    }
    next ad
  }

  while ((Goal show time left ) {
    if ad is not in the history {
      select ad [according to target]
      goal show time left := ad.showFor
    }
    next ad
  }

```

Default values:

- reqInterval = 1 day.
- faceTime = 30 minutes
- faceTimeQuota is ?
- histLength = 31 days

Fig. 21B

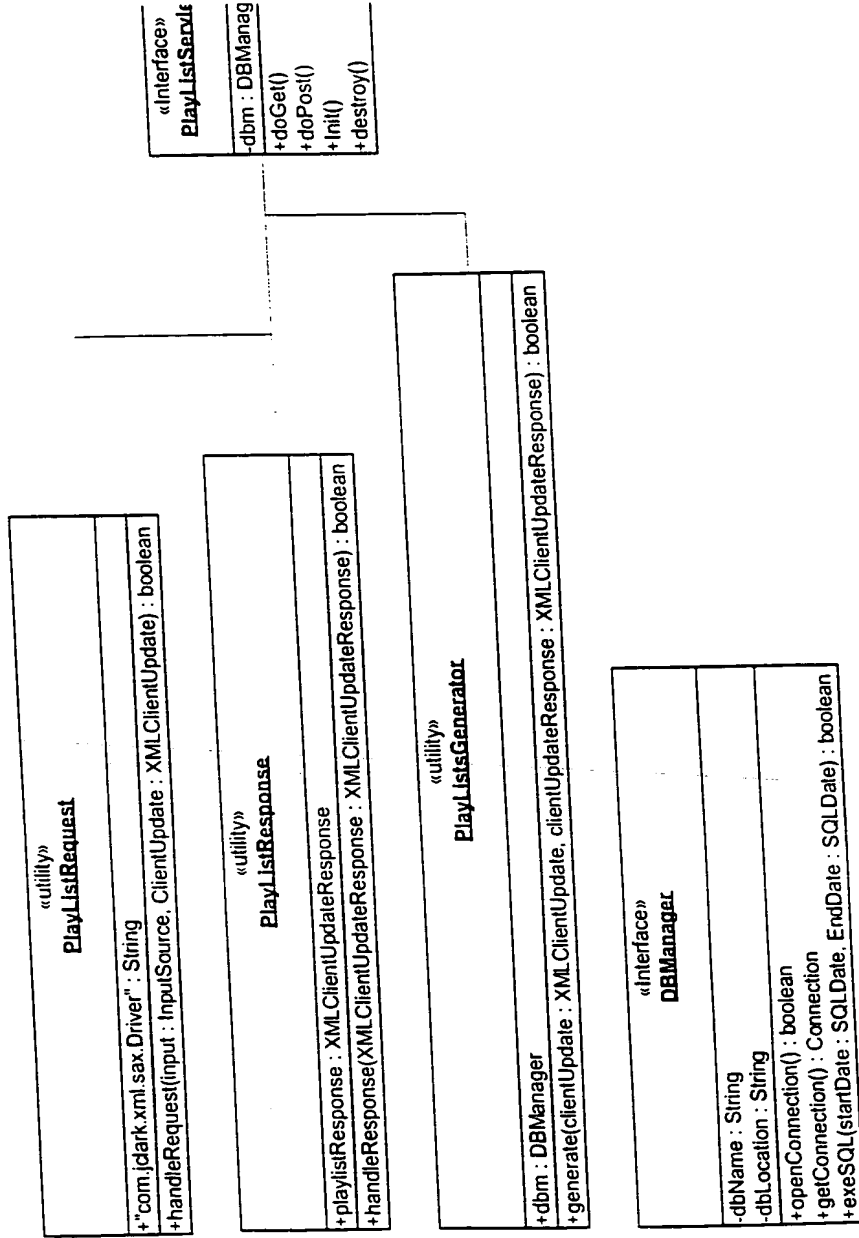


Fig. 22

